

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a cellular  
communication system that includes a central radio  
pool/traffic router (CRP/TR) that sends control and traffic  
signals over fiber optic transmission links that connect  
the CRP/TR with base stations of the cellular communication  
system. The high bandwidth capacity of each fiber link  
10 allows a large band of radio frequencies representing many  
radio channels to pass between the CRP/TR and individual  
base stations. Radio resources can be shared by all base  
stations in the cellular communication system, dynamically,  
when and where needed, to meet access demands throughout  
15 the system. The CRP/TR includes low-powered digital and/or  
analog radios and also switching and modulation means used  
to convey signals between the radios and various base  
stations within the system.